

# Contributor Index

Volume 13, 1991

Subject index on page 457.

## A

- Aferzon J, Chau RI, Cowan DF. A Microcomputer-Based System for Three-Dimensional Reconstructions from Tomographic or Histologic Sections. 1991;13:80-88
- Akagi H (see Ishiwata et al). 1991;13:363-370
- Ambros RA. Reproducibility of Nuclear Morphometric Measurements in Benign Human Epithelial Cells: Stimulation of Variations in Routine Tissue Processing. 1991;13:407-410
- Armas-Padrón JR (see González-Cámpora et al). 1991;13:16-22
- Atkin NB. The Clinical Usefulness of Determining Ploidy Patterns in Human Tumors as Measured by Slide-Based Feulgen Microspectrophotometry. 1991;13:75-79
- Audigier JC (see Perrin-Cottier et al). 1991;13:132-138
- Auer G (see Björnhagen et al). 1991;13:335-342
- Auer G (see Björnhagen et al). 1991;13:343-350
- Auer G (see Ullén et al). 1991;13:168-176

## B

- Baak JPA (see Schipper et al). 1991;13:395-402
- Baak JPA (see Uytterlinde et al). 1991;13:115-122
- Badr-El-Din A (see Salmon et al). 1991;13:193-200
- Baldetorp B (see Dictor et al). 1991;13:201-208
- Bartels PH (see Bibbo et al). 1991;13:61-68
- Bartels PH (see Minimo et al). 1991;13:411-417
- Bartels PH (see Montag et al). 1991;13:159-167
- Barthélémy C (see Perrin-Cottier et al). 1991;13:132-138
- Bauer KD (see Eriksen et al). 1991;13:45-53
- Becker RL Jr (see Mikel and Becker). 1991;13:253-260
- Beerman H, Veldhuizen RW, Blok RAP, Hermans J, Ooms ECM. Cytomorphometry as Quality Control for Fine Needle Aspiration: A Study in 321 Breast Lesions. 1991;13:143-148
- Ben Mosbah T (see Nikkels et al). 1991;13:23-26
- Berman JJ, Seidman JD, Yetter R, Moore GW. Clear Cell Dysplasia of the Bladder: Report of a Case with Flow Cytometric Analysis. 1991;13:391-394
- Bibbo M, Kim DH, Pfeifer T, Dytch HE, Galera-Davidson H, Bartels PH. Histometric Features for the Grading of Prostatic Carcinoma. 1991;13:61-68

- Bibbo M (see Koss et al). 1991;13:1-2 (Editorial)
- Bibbo M (see Minimo et al). 1991;13:411-417
- Bibbo M (see Montag et al). 1991;13:159-167
- Biesterfeld S, Füzesi L, Härle F, Böcking A. DNA-Cytometric Detection of Euploid Polyploidization in Oral Lichen Ruber Planus. 1991;13:7-10
- Binet J-L (see Caulet et al). 1991;13:279-287
- Björnhagen V, Auer G, Lagerlöf B, Erhardt K, Månsson-Brahme E. Nuclear DNA Analyses in Archival Material from Primary Malignant Melanoma: A Pilot Study. 1991;13:335-342
- Månsson-Brahme E, Erhardt K, Lagerlöf B, Auer G. Comparison of Nuclear DNA Content in Primary and Metastatic Malignant Melanoma. 1991;13:343-350
- Blok RAP (see Beerman et al). 1991;13:143-148
- Böcking A (see Biesterfeld et al). 1991;13:7-10
- Böcking A (see Kropff et al). 1991;13:433-439
- Böhm G (see Kayser et al). 1991;13:329-334
- Böhmer H (see Kropff et al). 1991;13:433-439
- Boon ME (see van der Poel et al). 1991;13:307-315
- Bouvier R (see Hijazi et al). 1991;13:139-142
- Brindza LJ. FDA Regulation of Computerized Cytology Devices. 1991;13:3-6
- Bringuier P-P (see Hijazi et al). 1991;13:139-142
- Brismar B (see Koha et al). 1991;13:429-432
- Buser M (see Oberholzer et al). 1991;13:316-320

## C

- Cabanie P (see Delverdiere et al). 1991;13:110-114
- Cahn F (see Foran et al). 1991;13:215-222
- Caulet S, Lesty C, Raphael M, Binet J-L, Diebold J. Quantitative Study of KI-67 Antibody Staining in Non-Hodgkin's Lymphomas Using Image Analysis. 1991;13:279-287
- Cavallari V, Maiorana A, Maiorana MC, Fano RA, Scimone S, Trentini GP. A Morphometric Comparison of Subcellular Structures Between Primary Breast Tumors and Their Nodal Metastases. 1991;13:123-131
- Chang T-C, Kuo S-H, How S-W. Coefficient of Variation of Nuclear Diameters as a Prognostic Factor in Papillary Thyroid Carcinoma. 1991;13:403-406
- Char DH, Kroll SM, Stoloff Am, Kaleta-Michaels S, Craw-

# Contributor Index

Volume 13, 1991

Subject index on page 457.

## A

- Aferzon J, Chau RI, Cowan DF. A Microcomputer-Based System for Three-Dimensional Reconstructions from Tomographic or Histologic Sections. 1991;13:80-88
- Akagi H (see Ishiwata et al). 1991;13:363-370
- Ambros RA. Reproducibility of Nuclear Morphometric Measurements in Benign Human Epithelial Cells: Stimulation of Variations in Routine Tissue Processing. 1991;13:407-410
- Armas-Padrón JR (see González-Cámpora et al). 1991;13:16-22
- Atkin NB. The Clinical Usefulness of Determining Ploidy Patterns in Human Tumors as Measured by Slide-Based Feulgen Microspectrophotometry. 1991;13:75-79
- Audigier JC (see Perrin-Cottier et al). 1991;13:132-138
- Auer G (see Björnhagen et al). 1991;13:335-342
- Auer G (see Björnhagen et al). 1991;13:343-350
- Auer G (see Ullén et al). 1991;13:168-176

## B

- Baak JPA (see Schipper et al). 1991;13:395-402
- Baak JPA (see Uytterlinde et al). 1991;13:115-122
- Badr-El-Din A (see Salmon et al). 1991;13:193-200
- Baldetorp B (see Dictor et al). 1991;13:201-208
- Bartels PH (see Bibbo et al). 1991;13:61-68
- Bartels PH (see Minimo et al). 1991;13:411-417
- Bartels PH (see Montag et al). 1991;13:159-167
- Barthélémy C (see Perrin-Cottier et al). 1991;13:132-138
- Bauer KD (see Eriksen et al). 1991;13:45-53
- Becker RL Jr (see Mikel and Becker). 1991;13:253-260
- Beerman H, Veldhuizen RW, Blok RAP, Hermans J, Ooms ECM. Cytomorphometry as Quality Control for Fine Needle Aspiration: A Study in 321 Breast Lesions. 1991;13:143-148
- Ben Mosbah T (see Nikkels et al). 1991;13:23-26
- Berman JJ, Seidman JD, Yetter R, Moore GW. Clear Cell Dysplasia of the Bladder: Report of a Case with Flow Cytometric Analysis. 1991;13:391-394
- Bibbo M, Kim DH, Pfeifer T, Dytch HE, Galera-Davidson H, Bartels PH. Histometric Features for the Grading of Prostatic Carcinoma. 1991;13:61-68

- Bibbo M (see Koss et al). 1991;13:1-2 (Editorial)
- Bibbo M (see Minimo et al). 1991;13:411-417
- Bibbo M (see Montag et al). 1991;13:159-167
- Biesterfeld S, Füzesi L, Härle F, Böcking A. DNA-Cytometric Detection of Euploid Polyploidization in Oral Lichen Ruber Planus. 1991;13:7-10
- Binet J-L (see Caulet et al). 1991;13:279-287
- Björnhagen V, Auer G, Lagerlöf B, Erhardt K, Månsson-Brahme E. Nuclear DNA Analyses in Archival Material from Primary Malignant Melanoma: A Pilot Study. 1991;13:335-342
- Månsson-Brahme E, Erhardt K, Lagerlöf B, Auer G. Comparison of Nuclear DNA Content in Primary and Metastatic Malignant Melanoma. 1991;13:343-350
- Blok RAP (see Beerman et al). 1991;13:143-148
- Böcking A (see Biesterfeld et al). 1991;13:7-10
- Böcking A (see Kropff et al). 1991;13:433-439
- Böhm G (see Kayser et al). 1991;13:329-334
- Böhmer H (see Kropff et al). 1991;13:433-439
- Boon ME (see van der Poel et al). 1991;13:307-315
- Bouvier R (see Hijazi et al). 1991;13:139-142
- Brindza LJ. FDA Regulation of Computerized Cytology Devices. 1991;13:3-6
- Bringuier P-P (see Hijazi et al). 1991;13:139-142
- Brismar B (see Koha et al). 1991;13:429-432
- Buser M (see Oberholzer et al). 1991;13:316-320

## C

- Cabanie P (see Delverdier et al). 1991;13:110-114
- Cahn F (see Foran et al). 1991;13:215-222
- Caulet S, Lesty C, Raphael M, Binet J-L, Diebold J. Quantitative Study of KI-67 Antibody Staining in Non-Hodgkin's Lymphomas Using Image Analysis. 1991;13:279-287
- Cavallari V, Maiorana A, Maiorana MC, Fano RA, Scimone S, Trentini GP. A Morphometric Comparison of Subcellular Structures Between Primary Breast Tumors and Their Nodal Metastases. 1991;13:123-131
- Chang T-C, Kuo S-H, How S-W. Coefficient of Variation of Nuclear Diameters as a Prognostic Factor in Papillary Thyroid Carcinoma. 1991;13:403-406
- Char DH, Kroll SM, Stoloff Am, Kaleta-Michaels S, Craw-

ford JB, Miller TR, Howes EL Jr, Ljung B-M. Cyto-morphometry of Uveal Melanoma: Comparison of Fine Needle Aspiration Biopsy Samples with Histo-logic Sections. 1991;13:293-299

Chatelain R (see Kropff et al). 1991;13:433-439

Chau RI (see Aferzon et al). 1991;13:80-88

Christen H (see Oberholzer et al). 1991;13:316-320

Cohen C, Santoianni RA, Tickman RJ, Kennedy JC, DeRose PB. Semiautomation of Preparation of Fixed Paraffin-Embedded Tissue for DNA Analysis. 1991;13:177-181

Coibion M (see Salmon et al). 1991;13:193-200

Collins VP (see Ullén et al). 1991;13:168-176

Cowan DF (see Aferzon et al). 1991;13:80-88

Cowpe JG, Green MW, Ogden GR. Quantitative Cytology of Oral Smears: A Comparison of Two Methods of Measurement. 1991;13:11-15

Cramer H (see Heimann et al). 1991;13:371-378

Crawford JB (see Char et al). 1991;13:293-299

Crissman JD, Drozdowicz S, Johnson C, Kini SR. Fine Needle Aspiration Diagnosis of Hyperplastic and Neoplastic Follicular Nodules of the Thyroid: A Mor-phometric Study. 1991;13:321-328

Crissman JD (see Visscher et al). 1991;13:246-252

Crissman JD (see Visscher et al). 1991;13:418-424

Croce C (see Lubinski et al). 1991;13:425-428

## D

de Bruijn WC (see van der Poel et al). 1991;13:307-315

Debruyne FMJ (see van der Poel et al). 1991;13:307-315

de la Brassinne M (see Nikkels et al). 1991;13:23-26

Delverdier M, Cabanie P, Roome N, Enjalbert F, van Haverbeke G. Quantitative Histology of the Rat Thy-roid: Influence of Histologic Techniques on the Mor-phometric Data. 1991;13:110-114

Demianiuk C (see Kapusta et al). 1991;13:187-192

DeRose PB (see Cohen et al). 1991;13:177-181

Devonoc M (see Hijazi et al). 1991;13:139-142

Dictor M, Fernö M, Baldetorp B. Flow Cytometric DNA Content in Kaposi's Sarcoma by Histologic Stage: Comparison with Angiosarcoma. 1991;13:201-208

Diebold J (see Caulet et al). 1991;13:279-287

Drozdowicz S (see Crissman et al). 1991;13:321-328

Dunn JA (see Finn et al). 1991;13:182-186

Dytch HE (see Bibbo et al). 1991;13:61-68

Dytch HE (see Minimo et al). 1991;13:411-417

Dytch HE (see Montag et al). 1991;13:159-167

## E

Eikenberry EF (see Foran et al). 1991;13:215-222

Enjalbert F (see Delverdier et al). 1991;13:110-114

Erhardt K (see Björnhagen et al). 1991;13:335-342

Erhardt K (see Björnhagen et al). 1991;13:343-350

Eriksen B, Miller DS, Murad TM, Lurain JR, Bauer KD. Dual-Parameter Flow Cytometric Analysis Coupling

the Measurements of Forward-Angle Light Scatter and DNA Content of Archival Ovarian Carcinomas of Low Malignant Potential. 1991;13:45-53

Ettlin R (see Oberholzer et al). 1991;13:316-320

## F

Falkmer UG (see Ullén et al). 1991;13:168-176

Fano RA (see Cavallari et al). 1991;13:123-131

Fernö M (see Dictor et al). 1991;13:201-208

Finn CB, Ward K, Luesley DM, Dunn JA, Redman CWE. Qualitative and Quantitative Analysis of Peritoneal Fluids from Women with Gynecologic Diseases: Comparison of Cytology and Flow Cytometry for the Detection of Malignancy in Lavage and Ascitic Fluids. 1991;13:182-186

Foran DJ, Cahn F, Eikenberry EF. Assessment of Cell Pro-liferation on Porous Microcarriers by Means of Image Analysis. 1991;13:215-222

Füzesi L (see Biesterfeld et al). 1991;13:7-10

## G

Galera-Davidson H (see Bibbo et al). 1991;13:61-68

Galera-Davidson H (see González-Cámpora et al). 1991;13:16-22

Galera-Davidson H (see González-Cámpora et al). 1991;13:54-60

Galera-Davidson H (see Minimo et al). 1991;13:411-417

Garcia GP (see Leif et al). 1991;13:440-450

Goldstein D (see Sokol et al). 1991;13:379-382

Goldstein NS (see Layfield and Goldstein). 1991;13:288-292

Gómez-Pascual A (see González-Cámpora et al). 1991;13:16-22

González-Cámpora R, Armas-Padrón JR, Rios-Martín JJ, López-Garrido J, Gómez-Pascual A, Galera-Davidson H. Nucleolar Organizer Regions in Pigmented Skin Lesions: Value in the Differential Diagnosis of Spitz Nevi. 1991;13:16-22

López-Garrido J, González de Chaves FJ, Mora-Marin J, Rodríguez-González R, Utrilla-Alcolea JC, Rubí-Uría J, Galera-Davidson H. Nuclear Planimetry in Renal-Cell Tumors. 1991;13:54-60

González de Chaves FJ (see González-Cámpora et al). 1991;13:54-60

Gratzner HG (see Heimann et al). 1991;13:371-378

Green MW (see Cowpe et al). 1991;13:11-15

Gschwind R (see Oberholzer et al). 1991;13:316-320

## H

Härle F (see Biesterfeld et al). 1991;13:7-10

Hashimoto H (see Ishiwata et al). 1991;13:363-370

Heimann A, Cramer H, Patel S, Gratzner HG, Katz RI. Determination of the Rate of DNA Synthesis of Hu-man Tumor Cells Obtained by Fine Needle Aspira-

- tion: Comparison of Flow Cytometry and an Immunoperoxidase Method for the Detection of Thymidine Analogue Incorporation. 1991;13:371-378
- Herman B (see Lockett et al). 1991;13:27-44
- Hermans J (see Beerman et al). 1991;13:143-148
- Hijazi A, Devonec M, Bouvier R, Bringuier P-P, Revillard J-P. Use of Leukocytes Infiltrating Bladder Tumors as an Internal Reference for Determining the DNA Index by Flow Cytometry. 1991;13:139-142
- Hiyama H (see Ishiwata et al). 1991;13:363-370
- How S-W (see Chang et al). 1991;13:403-406
- Howes EL Jr (see Char et al). 1991;13:293-299
- Hudson G II (see Sokol et al). 1991;13:379-382
- Huebner K (see Lubinski et al). 1991;13:425-428
- Huebner K (see Ptaszynski et al). 1991;13:149-154
- Hutchinson ML, Isenstein LM, Zahniser DJ. High-Resolution and Contextual Analysis for the Diagnosis of Fine Needle Aspirates of Breast. 1991;13:351-355
- Hutchinson ML (see Wachtel et al). 1991;13:69-73
- Huvos AG (see Kiss et al). 1991;13:356-362
- I**
- Isenstein LM (see Hutchinson et al). 1991;13:351-355
- Ishikawa H (see Ishiwata et al). 1991;13:363-370
- Ishiwata C (see Ishiwata et al). 1991;13:363-370
- Ishiwata I, Ishiwata C, Soma M, Akagi H, Hiyama H, Nakaguchi T, Ono I, Hashimoto H, Ishikawa H. Presence of Human Papillomavirus Genome in Human Tumor Cell Lines and Cultured Cells. 1991;13:363-370
- J**
- Jacobson K (see Lockett et al). 1991;13:27-44
- James NT (see Sokol et al). 1991;13:379-382
- Johnson C (see Crissman et al). 1991;13:321-328
- Jouffre C (see Perrin-Cottier et al). 1991;13:132-138
- K**
- Kaleta-Michaels S (see Char et al). 1991;13:293-299
- Kapusta L, Zbieranowski I, Demianiuk C, Murray D. The Role of DNA Flow and Image Cytometry in the Evaluation of Body Cavity Fluids. 1991;13:187-192
- Katz RI (see Heimann et al). 1991;13:371-378
- Kaufman DG (see Lockett et al). 1991;13:27-44
- Kayser K, Sandau K, Böhm G, Kunze KD, Paul J. Analysis of Soft Tissue Tumors by an Attributed Minimum Spanning Tree. 1991;13:329-334
- Kennedy JC (see Cohen et al). 1991;13:177-181
- Kim DH (see Bibbo et al). 1991;13:61-68
- Kim DH (see Minimo et al). 1991;13:411-417
- Kini SR (see Crissman et al). 1991;13:321-328
- Kiss R, Larsimont D, Huvos AG. Digital Cell Image Analysis of Ewing's Sarcoma. 1991;13:356-362
- Kiss R (see Salmon et al). 1991;13:193-200
- Koha M, Wikström B, Brismar B. DNA Distribution Pattern in Colorectal Carcinoma: A Methodologic Study Comparing Two Different Biopsy Techniques. 1991;13:429-432
- Kok LP (see van der Poel et al). 1991;13:307-315
- Komar A (see Mystkowska et al). 1991;13:209-214
- Koss LG, Bibbo M, Rosenthal DL, George L. Wied—Seventy Years Young. 1991;13:1-2 (Editorial)
- Kroll SM (see Char et al). 1991;13:293-299
- Kropff M, Chatelain R, Muller CP, Wagner A, Wenzler T, Böhmer H, Böcking A. Monitoring DNA Cytometric Parameters During the Course of Chronic Myelogenous Leukemia. 1991;13:433-439
- Kunze KD (see Kayser et al). 1991;13:329-334
- Kuo S-H (see Chang et al). 1991;13:403-406
- L**
- Lagerlöf B (see Björnhagen et al). 1991;13:335-342
- Lagerlöf B (see Björnhagen et al). 1991;13:343-350
- Larsimont D (see Kiss et al). 1991;13:356-362
- Larsimont D (see Salmon et al). 1991;13:193-200
- Laurent JL (see Pasteur et al). 1991;13:383-390
- Laurent JL (see Perrin-Cottier et al). 1991;13:132-138
- Layfield LJ, Goldstein NS. Morphometric Analysis of Borderline Atypia in Prostatic Aspiration Biopsy Specimens. 1991;13:288-292
- Leif RC, Rosello ID, Simler DM, Garcia GP, Leif SB. Ada Software for Cytometry. 1991;13:440-450
- Leif SB (see Leif et al). 1991;13:440-450
- Lerma-Puertas E (see Montag et al). 1991;13:159-167
- Lesty C (see Caulet et al). 1991;13:279-287
- Ljung B-M (see Char et al). 1991;13:293-299
- Lockett SJ, O'Rand M, Rinehart CA, Kaufman DG, Herman B, Jacobson K. Automated Fluorescence Image Cytometry: DNA Quantification and Detection of Chlamydial Infections. 1991;13:27-44
- López-Garrido J (see González-Cámpora et al). 1991;13:16-22
- Lubinski J, Ptaszynski K, Tsujimoto Y, Huebner K, Croce C. Germ Line Configuration of the BCL-2 Major Breakpoint Region in Hyperplastic Lymph Nodes. 1991;13:425-428
- Lubinski J (see Ptaszynski et al). 1991;13:149-154
- Luesley DM (see Finn et al). 1991;13:182-186
- Lurain JR (see Eriksen et al). 1991;13:45-53
- M**
- Maiorana A (see Cavallari et al). 1991;13:123-131
- Maiorana MC (see Cavallari et al). 1991;13:123-131
- Månsson-Brahme E (see Björnhagen et al). 1991;13:335-342
- Marchevsky AM. Expert Systems for Efficient Handling of Medical Information: I. Lung Cancer. 1991;13:89-92
- Maubon I (see Pasteur et al). 1991;13:383-390
- Maubon I (see Perrin-Cottier et al). 1991;13:132-138
- McLean M, Prothero JW. Three-Dimensional Reconstruction from Serial Sections: V. Calibration of Dimen-



- sional Changes Incurred During Tissue Preparation and Data Processing. 1991;13:269-278
- Michelassi F (see Montag et al). 1991;13:159-167
- Mikel UV, Becker RL Jr. A Comparative Study of Quantitative Stains for DNA in Image Cytometry. 1991;13:253-260
- Miller DS (see Eriksen et al). 1991;13:45-53
- Miller TR (see Char et al). 1991;13:293-299
- Minimo C, Bartels PH, Kim DH, Pfeifer T, Dytych HE, Galera-Davidson H, Bibbo M. Value of the Cribriformity Factor in Grading Prostatic Carcinoma. 1991;13:411-417
- Montag AG, Bartels PH, Dytych HE, Lerma-Puertas E, Michelassi F, Bibbo M. Karyometric Features in Nuclei Near Colonic Adenocarcinoma: Statistical Analysis. 1991;13:159-167
- Moore GW (see Berman et al). 1991;13:391-394
- Mora-Marin J (see González-Cámpora et al). 1991;13:54-60
- Muller CP (see Kropff et al). 1991;13:433-439
- Murad TM (see Eriksen et al). 1991;13:45-53
- Murray D (see Kapusta et al). 1991;13:187-192
- Mystkowska ET, Komar A, Strojny P, Rozycka M, Sawicki W. Fourier Analysis of the Nuclear and Cytoplasmic Shapes of Living Two-Cell Murine Embryos. 1991;13:209-214

## N

- Nakaguchi T (see Ishiwata et al). 1991;13:363-370
- Nikkels A, Ben Mosbah T, Piérard-Franchimont C, de la Brassinne M, Piérard GE. Comparative Morphometric Study of Eruptive PUVA-Induced and Chronic Sun-Induced Lentigines of the Skin. 1991;13:23-26

## O

- Oberholzer M, Christen H, Ettlin R, Buser M, Oestreicher M, Gschwind R. Some Fundamental Aspects of Morphometry in Clinical Pathology, Demonstrated on a Simple, Multipurpose Analysis System. 1991;13:316-320
- Oestreicher M (see Oberholzer et al). 1991;13:316-320
- Ogden GR (see Cowpe et al). 1991;13:11-15
- Ono I (see Ishiwata et al). 1991;13:363-370
- Ooms ECM (see Beerman et al). 1991;13:143-148
- O'Rand M (see Lockett et al). 1991;13:27-44

## P

- Pasteels J-L (see Salmon et al). 1991;13:193-200
- Pasteur X, Sabido O, Maubon I, Perrin-Cottier M, Laurent JL. Quantitative Assessment of Chromatin Stability Alteration in Human Spermatozoa Induced by Freezing and Thawing: A Flow Cytometric Study. 1991;13:383-390
- Pasteur X (see Perrin-Cottier et al). 1991;13:132-138
- Patel S (see Heimann et al). 1991;13:371-378

- Paul J (see Kayser et al). 1991;13:329-334
- Perrin-Cottier M, Jouffre C, Sabido O, Maubon I, Barthélémy C, Pasteur X, Audigier JC, Laurent JL. Flow Cytometric Analysis of DNA Content in Colorectal Polyps Resected at Endoscopy. 1991;13:132-138
- Perrin-Cottier M (see Pasteur et al). 1991;13:383-390
- Pfeifer T (see Bibbo et al). 1991;13:61-68
- Pfeifer T (see Minimo et al). 1991;13:411-417
- Piérard GE (see Nikkels et al). 1991;13:23-26
- Piérard-Franchimont C (see Nikkels et al). 1991;13:23-26
- Pirozynski W (see Rondez et al). 1991;13:233-245
- Podolski J (see Ptaszynski et al). 1991;13:149-154
- Porwit-McDonald A (see Rubio and Porwit-McDonald). 1991;13:155-158
- Prothero JW (see McLean and Prothero). 1991;13:269-278
- Ptaszynski K, Podolski J, Huebner K, Lubinski J. Gene Rearrangements Detected by Nonradioactive Digoxigenin-Labeled DNA Probes. 1991;13:149-154
- Ptaszynski K (see Lubinski et al). 1991;13:425-428

## R

- Raphael M (see Caulet et al). 1991;13:279-287
- Redman CWE (see Finn et al). 1991;13:182-186
- Revillard J-P (see Hijazi et al). 1991;13:139-142
- Rigaut JP, Vassy J. High-Resolution Three-Dimensional Images from Confocal Scanning Laser Microscopy: Quantitative Study and Mathematical Correction of the Effects from Bleaching and Fluorescence Attenuation in Depth. 1991;13:223-232
- Rinehart CA (see Lockett et al). 1991;13:27-44
- Rios-Martín JJ (see González-Cámpora et al). 1991;13:16-22
- Rodríguez-González R (see González-Cámpora et al). 1991;13:54-60
- Rogers AE (see Wachtel et al). 1991;13:69-73
- Rondez R, Yoshizaki C, Pirozynski W. Determination of Nuclear DNA Content and Hormone Receptors in Breast Cancer by the CAS 100 Cell Analysis System as Related to Morphologic Grade and Biochemical Results. 1991;13:233-245
- Roome N (see Delverdier et al). 1991;13:110-114
- Rosello ID (see Leif et al). 1991;13:440-450
- Rosenthal DL (see Koss et al). 1991;13:1-2 (Editorial)
- Rozycka M (see Mystkowska et al). 1991;13:209-214
- Rubio CA, Porwit-McDonald A. A Method to Quantitate the Relative Nuclear Area of Colorectal Polyps by Image Analysis. 1991;13:155-158
- Rubí-Uriá J (see González-Cámpora et al). 1991;13:54-60

## S

- Sabido O (see Pasteur et al). 1991;13:383-390
- Sabido O (see Perrin-Cottier et al). 1991;13:132-138
- Salmon I, Coibion M, Larsimont D, Badr-El-Din A, Verhest A, Pasteels J-L, Kiss R. Comparison of Fine Needle Aspirates of Breast Cancers to Imprint Smears by Means of Digital Cell Image Analysis. 1991;13:193-200

- Sandau K (see Kayser et al). 1991;13:329-334  
 Santoianni RA (see Cohen et al). 1991;13:177-181  
 Sarkar FH (see Visscher et al). 1991;13:418-424  
 Sawicki W (see Mystkowska et al). 1991;13:209-214  
 Schipper NW, Baak JPA, Smeulders AWM. Automated Selection of the Most Epithelium-Rich Areas in Gynecologic Tumor Sections. 1991;13:395-402  
 Scimone S (see Cavallari et al). 1991;13:123-131  
 Seidman JD (see Berman et al). 1991;13:391-394  
 Simler DM (see Leif et al). 1991;13:440-450  
 Smeulders AWM (see Schipper et al). 1991;13:395-402  
 Smeulders AWM (see Uytterlinde et al). 1991;13:115-122  
 Smeulders AWM (see van Ginneken and Smeulders). 1991;13:93-109  
 Sokol RJ, Wales J, Hudson G II, Goldstein D, James NT. Cellular Dry Mass During Macrophage Development in Malignant Lymphoma. 1991;13:379-382  
 Soma M (see Ishiwata et al). 1991;13:363-370  
 Stoloff Am (see Char et al). 1991;13:293-299  
 Strojny P (see Mystkowska et al). 1991;13:209-214

## T

- Tickman RJ (see Cohen et al). 1991;13:177-181  
 Trentini GP (see Cavallari et al). 1991;13:123-131  
 Tsujimoto Y (see Lubinski et al). 1991;13:425-428

## U

- Ullén H, Falkmer UG, Collins VP, Auer GU. Methodologic Aspects of Nuclear DNA Assessment of Gliomas with Astrocytic and/or Oligodendrocytic Differentiation: Correlation of Image and Flow Cytometric Studies on Paraffin-Embedded Specimens. 1991;13:168-176  
 Utrilla-Alcolea JC (see González-Cámpora et al). 1991;13:54-60  
 Uytterlinde AM, Smeulders AWM, Baak JPA. DNA Measurement Errors with a Scanning Microdensitometer in Cytologic and Histologic Samples of Breast Cancers. 1991;13:115-122

## V

- van Cauberg RD (see van der Poel et al). 1991;13:307-315  
 van der Meulen EA (see van der Poel et al). 1991;13:307-315

- van der Poel HG, Boon ME, Kok LP, van der Meulen EA, van Cauberg RD, de Bruijn WC, Debruyne FMJ. Morphometry, Densitometry and Pattern Analysis of Plastic-Embedded Histologic Material from Urothelial Cell Carcinoma of the Bladder. 1991;13:307-315  
 van Ginneken AM, Smeulders AWM. Reasoning in Uncertainties: An Analysis of Five Strategies and Their Suitability in Pathology. 1991;13:93-109  
 van Haverbeke G (see Delverdier et al). 1991;13:110-114  
 Van Meir F. Planimetry of Bronchoalveolar Macrophages: Importance of Preparation and Staining Techniques. 1991;13:261-268  
 Vassy J (see Rigaut and Vassy). 1991;13:223-232  
 Veldhuizen RW (see Beerman et al). 1991;13:143-148  
 Verhest A (see Salmon et al). 1991;13:193-200  
 Visscher DW, Sarkar FH, Crissman JD. Correlation of DNA Ploidy with c-erbB-2 Expression in Preinvasive and Invasive Breast Tumors. 1991;13:418-424  
 Visscher DW, Wykes S, Zarbo RJ, Crissman JD. Multiparametric Evaluation of Flow Cytometric Synthesis Phase Fraction Determination in Dual-Labelled Breast Carcinomas. 1991;13:246-252

## W

- Wachtel MS, Zahniser DJ, Rogers AE, Hutchinson ML. Automated Analysis of Rat Breast Tumors: Comparison of Four Methods. 1991;13:69-73  
 Wagner A (see Kropff et al). 1991;13:433-439  
 Wales J (see Sokol et al). 1991;13:379-382  
 Ward K (see Finn et al). 1991;13:182-186  
 Wenzler T (see Kropff et al). 1991;13:433-439  
 Wikström B (see Koha et al). 1991;13:429-432  
 Wykes S (see Visscher et al). 1991;13:246-252

## Y

- Yetter R (see Berman et al). 1991;13:391-394  
 Yoshizaki C (see Rondez et al). 1991;13:233-245

## Z

- Zahniser DJ (see Hutchinson et al). 1991;13:351-355  
 Zahniser DJ (see Wachtel et al). 1991;13:69-73  
 Zarbo RJ (see Visscher et al). 1991;13:246-252  
 Zbieranowski I (see Kapusta et al). 1991;13:187-192

# Subject Index

## Volume 13, 1991

Contributor index on page 452.

### A

#### Ada

Ada Software for Cytometry (Leif et al). 1991;13:440-450

#### Adenocarcinoma

Histometric Features for the Grading of Prostatic Carcinoma (Bibbo et al). 1991;13:61-68

Karyometric Features in Nuclei Near Colonic Adenocarcinoma: Statistical Analysis (Montag et al). 1991;13:159-167

Nuclear Planimetry in Renal-Cell Tumors (González-Cámpora et al). 1991;13:54-60

#### Adenoma

Fine Needle Aspiration Diagnosis of Hyperplastic and Neoplastic Follicular Nodules of the Thyroid: A Morphometric Study (Crissman et al). 1991;13:321-328

Nuclear Planimetry in Renal-Cell Tumors (González-Cámpora et al). 1991;13:54-60

#### Amcell 2000T Labmaster™

Data on Automated Cytology Systems as Submitted by Their Developers. 1991;13:300-306

#### Angiosarcoma; see Hemangiosarcoma

#### Antibodies

Quantitative Study of KI-67 Antibody Staining in Non-Hodgkin's Lymphomas Using Image Analysis (Caulet et al). 1991;13:279-287

#### Ascitic fluid

Qualitative and Quantitative Analysis of Peritoneal Fluids from Women with Gynecologic Diseases: Comparison of Cytology and Flow Cytometry for the Detection of Malignancy in Lavage and Ascitic Fluids (Finn et al). 1991;13:182-186

#### Astrocytes

Methodologic Aspects of Nuclear DNA Assessment of Gliomas with Astrocytic and/or Oligodendrocytic Differentiation: Correlation of Image and Flow Cytometric Studies on Paraffin-Embedded Specimens (Ullén et al). 1991;13:168-176

#### Automation

Automated Analysis of Rat Breast Tumors: Comparison of Four Methods (Wachtel et al). 1991;13:69-73

Automated Selection of the Most Epithelium-Rich Areas

in Gynecologic Tumor Sections (Schipper et al). 1991;13:395-402

Data on Automated Cytology Systems as Submitted by Their Developers. 1991;13:300-306

Semiautomation of Preparation of Fixed Paraffin-Embedded Tissue for DNA Analysis (Cohen et al). 1991;13:177-181

#### AutoPap™300 Automatic Pap Screener

Data on Automated Cytology Systems as Submitted by Their Developers. 1991;13:300-306

### B

#### BCL-2 translocation; see Translocation

#### Biography

George L. Wied—Seventy Years Young (Koss et al). 1991;13:1-2 (Editorial)

#### Biopsy

DNA Distribution Pattern in Colorectal Carcinoma: A Methodologic Study Comparing Two Different Biopsy Techniques (Koha et al). 1991;13:429-432

#### Biopsy, needle

Comparison of Fine Needle Aspirates of Breast Cancers to Imprint Smears by Means of Digital Cell Image Analysis (Salmon et al). 1991;13:193-200

Cytomorphometry as Quality Control for Fine Needle Aspiration: A Study in 321 Breast Lesions (Beerman et al). 1991;13:143-148

Cytomorphometry of Uveal Melanoma: Comparison of Fine Needle Aspiration Biopsy Samples with Histologic Sections (Char et al). 1991;13:293-299

Determination of the Rate of DNA Synthesis of Human Tumor Cells Obtained by Fine Needle Aspiration: Comparison of Flow Cytometry and an Immunoperoxidase Method for the Detection of Thymidine Analogue Incorporation (Heimann et al). 1991;13:371-378

DNA Distribution Pattern in Colorectal Carcinoma: A Methodologic Study Comparing Two Different Biopsy Techniques (Koha et al). 1991;13:429-432

Fine Needle Aspiration Diagnosis of Hyperplastic and Neoplastic Follicular Nodules of the Thyroid: A Morphometric Study (Crissman et al). 1991;13:321-328

High-Resolution and Contextual Analysis for the Diagnosis of Fine Needle Aspirates of Breast (Hutchinson et al). 1991;13:351-355

Morphometric Analysis of Borderline Atypia in Prostatic Aspiration Biopsy Specimens (Layfield and Goldstein). 1991;13:288-292

#### **Bladder neoplasms**

Clear Cell Dysplasia of the Bladder: Report of a Case with Flow Cytometric Analysis (Berman et al). 1991;13:391-394

Morphometry, Densitometry and Pattern Analysis of Plastic-Embedded Histologic Material from Urothelial Cell Carcinoma of the Bladder (van der Poel et al). 1991;13:307-315

Use of Leukocytes Infiltrating Bladder Tumors as an Internal Reference for Determining the DNA Index by Flow Cytometry (Hijazi et al). 1991;13:139-142

#### **Bleaching**

High-Resolution Three-Dimensional Images from Confocal Scanning Laser Microscopy: Quantitative Study and Mathematical Correction of the Effects from Bleaching and Fluorescence Attenuation in Depth (Rigaut and Vassy). 1991;13:223-232

#### **Body fluids**

The Role of DNA Flow and Image Cytometry in the Evaluation of Body Cavity Fluids (Kapusta et al). 1991;13:187-192

#### **Breast neoplasms**

Automated Analysis of Rat Breast Tumors: Comparison of Four Methods (Wachtel et al). 1991;13:69-73

Comparison of Fine Needle Aspirates of Breast Cancers to Imprint Smears by Means of Digital Cell Image Analysis (Salmon et al). 1991;13:193-200

Correlation of DNA Ploidy with c-erbB-2 Expression in Preinvasive and Invasive Breast Tumors (Visscher et al). 1991;13:418-424

Cytomorphometry as Quality Control for Fine Needle Aspiration: A Study in 321 Breast Lesions (Beerman et al). 1991;13:143-148

Determination of Nuclear DNA Content and Hormone Receptors in Breast Cancer by the CAS 100 Cell Analysis System as Related to Morphologic Grade and Biochemical Results (Rondez et al). 1991;13:233-245

DNA Measurement Errors with a Scanning Microdensitometer in Cytologic and Histologic Samples of Breast Cancers (Uyterlinde et al). 1991;13:115-122

High-Resolution and Contextual Analysis for the Diagnosis of Fine Needle Aspirates of Breast (Hutchinson et al). 1991;13:351-355

A Morphometric Comparison of Subcellular Structures Between Primary Breast Tumors and Their Nodal Metastases (Cavallari et al). 1991;13:123-131

Multiparametric Evaluation of Flow Cytometric Synthesis Phase Fraction Determination in Dual-Labelled Breast Carcinomas (Visscher et al). 1991;13:246-252

#### **Bronchoalveolar lavage fluid**

Planimetry of Bronchoalveolar Macrophages: Importance of Preparation and Staining Techniques (Van Meir). 1991;13:261-268

### **C**

#### **c-erbB-2; see Oncogene products**

#### **Carcinoma**

Determination of Nuclear DNA Content and Hormone Receptors in Breast Cancer by the CAS 100 Cell Analysis System as Related to Morphologic Grade and Biochemical Results (Rondez et al). 1991;13:233-245

DNA Distribution Pattern in Colorectal Carcinoma: A Methodologic Study Comparing Two Different Biopsy Techniques (Koha et al). 1991;13:429-432

Dual-Parameter Flow Cytometric Analysis Coupling the Measurements of Forward-Angle Light Scatter and DNA Content of Archival Ovarian Carcinomas of Low Malignant Potential (Eriksen et al). 1991;13:45-53

Fine Needle Aspiration Diagnosis of Hyperplastic and Neoplastic Follicular Nodules of the Thyroid: A Morphometric Study (Crissman et al). 1991;13:321-328

Histometric Features for the Grading of Prostatic Carcinoma (Bibbo et al). 1991;13:61-68

Morphometry, Densitometry and Pattern Analysis of Plastic-Embedded Histologic Material from Urothelial Cell Carcinoma of the Bladder (van der Poel et al). 1991;13:307-315

Multiparametric Evaluation of Flow Cytometric Synthesis Phase Fraction Determination in Dual-Labelled Breast Carcinomas (Visscher et al). 1991;13:246-252

Presence of Human Papillomavirus Genome in Human Tumor Cell Lines and Cultured Cells (Ishiwata et al). 1991;13:363-370

Value of the Cribriformity Factor in Grading Prostatic Carcinoma (Minimo et al). 1991;13:411-417

#### **Carcinoma, papillary**

Coefficient of Variation of Nuclear Diameters as a Prognostic Factor in Papillary Thyroid Carcinoma (Chang et al). 1991;13:403-406

#### **Carcinoma, renal cell**

Nuclear Planimetry in Renal-Cell Tumors (González-Cámpora et al). 1991;13:54-60

#### **CAS 100™ system; see Image processing, computer-assisted**

#### **Cell division**

Assessment of Cell Proliferation on Porous Microcarriers by Means of Image Analysis (Foran et al). 1991;13:215-222

#### **Cell fractionation**

Multiparametric Evaluation of Flow Cytometric Synthesis Phase Fraction Determination in Dual-Labelled Breast Carcinomas (Visscher et al). 1991;13:246-252

#### **Cell lines**

Presence of Human Papillomavirus Genome in Human



Tumor Cell Lines and Cultured Cells (Ishiwata et al). 1991;13:363-370

#### Cell nucleus

Analysis of Soft Tissue Tumors by an Attributed Minimum Spanning Tree (Kayser et al). 1991;13:329-334

Coefficient of Variation of Nuclear Diameters as a Prognostic Factor in Papillary Thyroid Carcinoma (Chang et al). 1991;13:403-406

Comparison of Nuclear DNA Content in Primary and Metastatic Malignant Melanoma (Björnhagen et al). 1991;13:343

Determination of Nuclear DNA Content and Hormone Receptors in Breast Cancer by the CAS 100 Cell Analysis System as Related to Morphologic Grade and Biochemical Results (Rondez et al). 1991;13:233-245

Digital Cell Image Analysis of Ewing's Sarcoma (Kiss et al). 1991;13:356-362

Fourier Analysis of the Nuclear and Cytoplasmic Shapes of Living Two-Cell Murine Embryos (Mystkowska et al). 1991;13:209-214

Karyometric Features in Nuclei Near Colonic Adenocarcinoma: Statistical Analysis (Montag et al). 1991;13:159-167

A Method to Quantitate the Relative Nuclear Area of Colorectal Polyps by Image Analysis (Rubio and Porwit-McDonald). 1991;13:155-158

Methodologic Aspects of Nuclear DNA Assessment of Gliomas with Astrocytic and/or Oligodendrocytic Differentiation: Correlation of Image and Flow Cytometric Studies on Paraffin-Embedded Specimens (Ullén et al). 1991;13:168-176

Nuclear DNA Analyses in Archival Material from Primary Malignant Melanoma: A Pilot Study (Björnhagen et al). 1991;13:335-342

Reproducibility of Nuclear Morphometric Measurements in Benign Human Epithelial Cells: Stimulation of Variations in Routine Tissue Processing (Ambros). 1991;13:407-410

#### Cellular dry mass

Cellular Dry Mass During Macrophage Development in Malignant Lymphoma (Sokol et al). 1991;13:379-382

#### Chlamydia infections

Automated Fluorescence Image Cytometry: DNA Quantification and Detection of Chlamydial Infections (Lockett et al). 1991;13:27-44

#### Chromatin

Quantitative Assessment of Chromatin Stability Alteration in Human Spermatozoa Induced by Freezing and Thawing: A Flow Cytometric Study (Pasteur et al). 1991;13:383-390

#### Chronic myelogenous leukemia; see Leukemia, myeloid

#### Clear cell dysplasia

Clear Cell Dysplasia of the Bladder: Report of a Case

with Flow Cytometric Analysis (Berman et al). 1991;13:391-394

#### Coefficient of variation

Coefficient of Variation of Nuclear Diameters as a Prognostic Factor in Papillary Thyroid Carcinoma (Chang et al). 1991;13:403-406

#### Colonic neoplasms

Karyometric Features in Nuclei Near Colonic Adenocarcinoma: Statistical Analysis (Montag et al). 1991;13:159-167

#### Colorectal neoplasms

DNA Distribution Pattern in Colorectal Carcinoma: A Methodologic Study Comparing Two Different Biopsy Techniques (Koha et al). 1991;13:429-432

Flow Cytometric Analysis of DNA Content in Colorectal Polyps Resected at Endoscopy (Perrin-Cottier et al). 1991;13:132-138

A Method to Quantitate the Relative Nuclear Area of Colorectal Polyps by Image Analysis (Rubio and Porwit-McDonald). 1991;13:155-158

#### Computed tomography; see Tomography, x-ray computed

#### Computerized image analysis; see Image processing, computer-assisted

#### Computers

Ada Software for Cytometry (Leif et al). 1991;13:440-450

FDA Regulation of Computerized Cytology Devices (Brindza). 1991;13:3-6

#### Confocal scanning laser microscopy; see Microscopy, laser, scanning

#### Contextual analysis

Automated Analysis of Rat Breast Tumors: Comparison of Four Methods (Wachtel et al). 1991;13:69-73

High-Resolution and Contextual Analysis for the Diagnosis of Fine Needle Aspirates of Breast (Hutchinson et al). 1991;13:351-355

#### Cribriformity factor

Value of the Cribriformity Factor in Grading Prostatic Carcinoma (Minimo et al). 1991;13:411-417

#### Cryopreservation

Quantitative Assessment of Chromatin Stability Alteration in Human Spermatozoa Induced by Freezing and Thawing: A Flow Cytometric Study (Pasteur et al). 1991;13:383-390

#### Cytomorphometry

Cytomorphometry as Quality Control for Fine Needle Aspiration: A Study in 321 Breast Lesions (Beerman et al). 1991;13:143-148

Cytomorphometry of Uveal Melanoma: Comparison of Fine Needle Aspiration Biopsy Samples with Histologic Sections (Char et al). 1991;13:293-299

High-Resolution and Contextual Analysis for the Diagnosis of Fine Needle Aspirates of Breast (Hutchinson et al). 1991;13:351-355

**Cytophotometry**

- Quantitative Cytology of Oral Smears: A Comparison of Two Methods of Measurement (Cowpe et al). 1991; 13:11-15

**Cytoplasm**

- Fourier Analysis of the Nuclear and Cytoplasmic Shapes of Living Two-Cell Murine Embryos (Mystkowska et al). 1991;13:209-214

- Quantitative Cytology of Oral Smears: A Comparison of Two Methods of Measurement (Cowpe et al). 1991; 13:11-15

**Cytc System for Cervical Cytology™**

- Data on Automated Cytology Systems as Submitted by Their Developers. 1991;13:300-306

**D****Data management/storage**

- Some Fundamental Aspects of Morphometry in Clinical Pathology, Demonstrated on a Simple, Multipurpose Analysis System (Oberholzer et al). 1991;13:316-320

**Data processing**

- Three-Dimensional Reconstruction from Serial Sections: V. Calibration of Dimensional Changes Incurred During Tissue Preparation and Data Processing (McLean and Prothero). 1991;13:269-278

**Densitometry**

- DNA Measurement Errors with a Scanning Microdensitometer in Cytologic and Histologic Samples of Breast Cancers (Uyterlinde et al). 1991;13:115-122

- Morphometry, Densitometry and Pattern Analysis of Plastic-Embedded Histologic Material from Urothelial Cell Carcinoma of the Bladder (van der Poel et al). 1991;13:307-315

**Digital cell image analysis; see Image processing, computer-assisted****Digoxigenin**

- Gene Rearrangements Detected by Nonradioactive Digoxigenin-Labeled DNA Probes (Ptaszyński et al). 1991;13:149-154

**DNA**

- Automated Fluorescence Image Cytometry: DNA Quantification and Detection of Chlamydial Infections (Lockett et al). 1991;13:27-44

- The Clinical Usefulness of Determining Ploidy Patterns in Human Tumors as Measured by Slide-Based Feulgen Microspectrophotometry (Atkin). 1991;13:75-79

- A Comparative Study of Quantitative Stains for DNA in Image Cytometry (Mikel and Becker). 1991;13:253-260

- Comparison of Nuclear DNA Content in Primary and Metastatic Malignant Melanoma (Björnhagen et al). 1991;13:343

- Correlation of DNA Ploidy with c-erbB-2 Expression in Preinvasive and Invasive Breast Tumors (Visscher et al). 1991;13:418-424

- Determination of the Rate of DNA Synthesis of Human

- Tumor Cells Obtained by Fine Needle Aspiration: Comparison of Flow Cytometry and an Immunoperoxidase Method for the Detection of Thymidine Analogue Incorporation (Heimann et al). 1991;13:371-378

- Digital Cell Image Analysis of Ewing's Sarcoma (Kiss et al). 1991;13:356-362

- DNA-Cytometric Detection of Euploid Polyploidization in Oral Lichen Ruber Planus (Biesterfeld et al). 1991; 13:7-10

- DNA Distribution Pattern in Colorectal Carcinoma: A Methodologic Study Comparing Two Different Biopsy Techniques (Koha et al). 1991;13:429-432

- DNA Measurement Errors with a Scanning Microdensitometer in Cytologic and Histologic Samples of Breast Cancers (Uyterlinde et al). 1991;13:115-122

- Dual-Parameter Flow Cytometric Analysis Coupling the Measurements of Forward-Angle Light Scatter and DNA Content of Archival Ovarian Carcinomas of Low Malignant Potential (Eriksen et al). 1991;13: 45-53

- Flow Cytometric Analysis of DNA Content in Colorectal Polyps Resected at Endoscopy (Perrin-Cottier et al). 1991;13:132-138

- Flow Cytometric DNA Content in Kaposi's Sarcoma by Histologic Stage: Comparison with Angiosarcoma (Dictor et al). 1991;13:201-208

- Monitoring DNA Cytometric Parameters During the Course of Chronic Myelogenous Leukemia (Kropff et al). 1991;13:433-439

- Nuclear DNA Analyses in Archival Material from Primary Malignant Melanoma: A Pilot Study (Björnhagen et al). 1991;13:335-342

- Presence of Human Papillomavirus Genome in Human Tumor Cell Lines and Cultured Cells (Ishiwata et al). 1991;13:363-370

- The Role of DNA Flow and Image Cytometry in the Evaluation of Body Cavity Fluids (Kapusta et al). 1991;13:187-192

- Semiautomation of Preparation of Fixed Paraffin-Embedded Tissue for DNA Analysis (Cohen et al). 1991;13:177-181

- Use of Leukocytes Infiltrating Bladder Tumors as an Internal Reference for Determining the DNA Index by Flow Cytometry (Hijazi et al). 1991;13:139-142

**DNA cytophotometry; see Cytophotometry****DNA probes**

- Gene Rearrangements Detected by Nonradioactive Digoxigenin-Labeled DNA Probes (Ptaszyński et al). 1991;13:149-154

**E****Editorial**

- George L. Wied—Seventy Years Young (Koss et al). 1991;13:1-2 (Editorial)

# Embryo

Fourier Analysis of the Nuclear and Cytoplasmic Shapes of Living Two-Cell Murine Embryos (Mystkowska et al). 1991;13:209-214

# Endoscopy

Flow Cytometric Analysis of DNA Content in Colorectal Polyps Resected at Endoscopy (Perrin-Cottier et al). 1991;13:132-138

# Epithelium

Automated Selection of the Most Epithelium-Rich Areas in Gynecologic Tumor Sections (Schipper et al). 1991;13:395-402

Reproducibility of Nuclear Morphometric Measurements in Benign Human Epithelial Cells: Stimulation of Variations in Routine Tissue Processing (Ambros). 1991;13:407-410

# Equipment safety

FDA Regulation of Computerized Cytology Devices (Brindza). 1991;13:3-6

# Euploid polyploidization; see Polyploidy

# Ewing's sarcoma; see Sarcoma, Ewing's

# Expert systems

Automated Fluorescence Image Cytometry: DNA Quantification and Detection of Chlamydial Infections (Lockett et al). 1991;13:27-44

Expert Systems for Efficient Handling of Medical Information: I. Lung Cancer (Marchevsky). 1991;13:89-92

# F

# FDA; see United States Food and Drug Administration

# Feulgen microspectrophotometry; see Microspectrophotometry

# Fine needle aspiration; see Biopsy, needle

# Flow cytometry

Automated Analysis of Rat Breast Tumors: Comparison of Four Methods (Wachtel et al). 1991;13:69-73

Automated Fluorescence Image Cytometry: DNA Quantification and Detection of Chlamydial Infections (Lockett et al). 1991;13:27-44

Clear Cell Dysplasia of the Bladder: Report of a Case with Flow Cytometric Analysis (Berman et al). 1991;13:391-394

Determination of the Rate of DNA Synthesis of Human Tumor Cells Obtained by Fine Needle Aspiration: Comparison of Flow Cytometry and an Immunoperoxidase Method for the Detection of Thymidine Analogue Incorporation (Heimann et al). 1991;13:371-378

Dual-Parameter Flow Cytometric Analysis Coupling the Measurements of Forward-Angle Light Scatter and DNA Content of Archival Ovarian Carcinomas of Low Malignant Potential (Eriksen et al). 1991;13:45-53

Flow Cytometric Analysis of DNA Content in Colorectal

Polyps Resected at Endoscopy (Perrin-Cottier et al). 1991;13:132-138

Flow Cytometric DNA Content in Kaposi's Sarcoma by Histologic Stage: Comparison with Angiosarcoma (Dictor et al). 1991;13:201-208

Methodologic Aspects of Nuclear DNA Assessment of Gliomas with Astrocytic and/or Oligodendrocytic Differentiation: Correlation of Image and Flow Cytometric Studies on Paraffin-Embedded Specimens (Ullén et al). 1991;13:168-176

Multiparametric Evaluation of Flow Cytometric Synthesis Phase Fraction Determination in Dual-Labelled Breast Carcinomas (Visscher et al). 1991;13:246-252

Qualitative and Quantitative Analysis of Peritoneal Fluids from Women with Gynecologic Diseases: Comparison of Cytology and Flow Cytometry for the Detection of Malignancy in Lavage and Ascitic Fluids (Finn et al). 1991;13:182-186

Quantitative Assessment of Chromatin Stability Alteration in Human Spermatozoa Induced by Freezing and Thawing: A Flow Cytometric Study (Pasteur et al). 1991;13:383-390

The Role of DNA Flow and Image Cytometry in the Evaluation of Body Cavity Fluids (Kapusta et al). 1991;13:187-192

Semiautomation of Preparation of Fixed Paraffin-Embedded Tissue for DNA Analysis (Cohen et al). 1991;13:177-181

Use of Leukocytes Infiltrating Bladder Tumors as an Internal Reference for Determining the DNA Index by Flow Cytometry (Hijazi et al). 1991;13:139-142

# Fluorescence

High-Resolution Three-Dimensional Images from Confocal Scanning Laser Microscopy: Quantitative Study and Mathematical Correction of the Effects from Bleaching and Fluorescence Attenuation in Depth (Rigaut and Vassy). 1991;13:223-232

# Fluorescence microscopy; see Microscopy, fluorescence

# Follicular adenoma; see Adenoma

# Follicular carcinoma; see Carcinoma

# Food and Drug Administration; see United States Food and Drug Administration

# Forward-angle light scatter

Dual-Parameter Flow Cytometric Analysis Coupling the Measurements of Forward-Angle Light Scatter and DNA Content of Archival Ovarian Carcinomas of Low Malignant Potential (Eriksen et al). 1991;13:45-53

# Fourier analysis

Fourier Analysis of the Nuclear and Cytoplasmic Shapes of Living Two-Cell Murine Embryos (Mystkowska et al). 1991;13:209-214

# Freezing

Quantitative Assessment of Chromatin Stability Alteration in Human Spermatozoa Induced by Freezing

and Thawing: A Flow Cytometric Study (Pasteur et al). 1991;13:383-390

## G

### Gene rearrangement

Gene Rearrangements Detected by Nonradioactive Digoxigenin-Labeled DNA Probes (Ptaszynski et al). 1991;13:149-154

### Genital diseases, female

Qualitative and Quantitative Analysis of Peritoneal Fluids from Women with Gynecologic Diseases: Comparison of Cytology and Flow Cytometry for the Detection of Malignancy in Lavage and Ascitic Fluids (Finn et al). 1991;13:182-186

### Genital neoplasms, female

Automated Selection of the Most Epithelium-Rich Areas in Gynecologic Tumor Sections (Schipper et al). 1991;13:395-402

### Genome, human

Presence of Human Papillomavirus Genome in Human Tumor Cell Lines and Cultured Cells (Ishiwata et al). 1991;13:363-370

### Germ cells

Germ Line Configuration of the BCL-2 Major Breakpoint Region in Hyperplastic Lymph Nodes (Lubinski et al). 1991;13:425-428

### Glioma

Methodologic Aspects of Nuclear DNA Assessment of Gliomas with Astrocytic and/or Oligodendrocytic Differentiation: Correlation of Image and Flow Cytometric Studies on Paraffin-Embedded Specimens (Ulén et al). 1991;13:168-176

### Grading of neoplasms; see Neoplasm staging

### Gynecologic diseases; see Genital diseases, female

### Gynecologic tumors; see Genital neoplasms, female

## H

### Hemangiosarcoma

Flow Cytometric DNA Content in Kaposi's Sarcoma by Histologic Stage: Comparison with Angiosarcoma (Dictor et al). 1991;13:201-208

### Histology

A Microcomputer-Based System for Three-Dimensional Reconstructions from Tomographic or Histologic Sections (Aferzon et al). 1991;13:80-88

### Hodgkin's disease

Cellular Dry Mass During Macrophage Development in Malignant Lymphoma (Sokol et al). 1991;13:379-382

### Hormone receptors; see Receptors, endogenous substances

### Hyperplasia

Fine Needle Aspiration Diagnosis of Hyperplastic and Neoplastic Follicular Nodules of the Thyroid: A Morphometric Study (Crissman et al). 1991;13:321-328

Germ Line Configuration of the BCL-2 Major Break-

point Region in Hyperplastic Lymph Nodes (Lubinski et al). 1991;13:425-428

Quantitative Histology of the Rat Thyroid: Influence of Histologic Techniques on the Morphometric Data (Delverdier et al). 1991;13:110-114

## I

### Image cytometry

Automated Analysis of Rat Breast Tumors: Comparison of Four Methods (Wachtel et al). 1991;13:69-73

Automated Fluorescence Image Cytometry: DNA Quantification and Detection of Chlamydial Infections (Lockett et al). 1991;13:27-44

A Comparative Study of Quantitative Stains for DNA in Image Cytometry (Mikel and Becker). 1991;13:253-260

Methodologic Aspects of Nuclear DNA Assessment of Gliomas with Astrocytic and/or Oligodendrocytic Differentiation: Correlation of Image and Flow Cytometric Studies on Paraffin-Embedded Specimens (Ulén et al). 1991;13:168-176

The Role of DNA Flow and Image Cytometry in the Evaluation of Body Cavity Fluids (Kapusta et al). 1991;13:187-192

### Image processing, computer-assisted

Analysis of Soft Tissue Tumors by an Attributed Minimum Spanning Tree (Kayser et al). 1991;13:329-334

Assessment of Cell Proliferation on Porous Microcarriers by Means of Image Analysis (Foran et al). 1991;13:215-222

Comparative Morphometric Study of Eruptive PUVA-Induced and Chronic Sun-Induced Lentigines of the Skin (Nikkels et al). 1991;13:23-26

Comparison of Fine Needle Aspirates of Breast Cancers to Imprint Smears by Means of Digital Cell Image Analysis (Salmon et al). 1991;13:193-200

Data on Automated Cytology Systems as Submitted by Their Developers. 1991;13:300-306

Determination of Nuclear DNA Content and Hormone Receptors in Breast Cancer by the CAS 100 Cell Analysis System as Related to Morphologic Grade and Biochemical Results (Rondez et al). 1991;13:233-245

Digital Cell Image Analysis of Ewing's Sarcoma (Kiss et al). 1991;13:356-362

High-Resolution Three-Dimensional Images from Confocal Scanning Laser Microscopy: Quantitative Study and Mathematical Correction of the Effects from Bleaching and Fluorescence Attenuation in Depth (Rigaut and Vassy). 1991;13:223-232

A Method to Quantitate the Relative Nuclear Area of Colorectal Polyps by Image Analysis (Rubio and Porwit-McDonald). 1991;13:155-158

A Microcomputer-Based System for Three-Dimensional Reconstructions from Tomographic or Histologic Sections (Aferzon et al). 1991;13:80-88

Quantitative Study of KI-67 Antibody Staining in Non-



Hodgkin's Lymphomas Using Image Analysis (Cau-  
let et al). 1991;13:279-287

Some Fundamental Aspects of Morphometry in Clinical  
Pathology, Demonstrated on a Simple, Multipurpose  
Analysis System (Oberholzer et al). 1991;13:316-320  
Three-Dimensional Reconstruction from Serial Sections:  
V. Calibration of Dimensional Changes Incurred Dur-  
ing Tissue Preparation and Data Processing (McLean  
and Prothero). 1991;13:269-278

#### Immunoenzyme techniques

Determination of the Rate of DNA Synthesis of Human  
Tumor Cells Obtained by Fine Needle Aspiration:  
Comparison of Flow Cytometry and an Immuno-  
peroxidase Method for the Detection of Thymidine  
Analogue Incorporation (Heimann et al). 1991;13:371-  
378

#### Information systems

Expert Systems for Efficient Handling of Medical Infor-  
mation: I. Lung Cancer (Marchevsky). 1991;13:89-92

#### International Conference on the Computerized Cytol- ogy and Histopathology Laboratory

Proceedings of the International Conference on the  
Computerized Cytology and Histopathology Labora-  
tory. 1991;13:75-92

### K

**Kaposi's sarcoma; see Sarcoma, Kaposi's**

#### Karyometry

Karyometric Features in Nuclei Near Colonic Adeno-  
carcinoma: Statistical Analysis (Montag et al). 1991;13:  
159-167

**KI-67 antibody; see Antibodies**

### L

**Lavage, peritoneal; see Peritoneal lavage**

#### Lentigines

Comparative Morphometric Study of Eruptive PUVA-  
Induced and Chronic Sun-Induced Lentigines of the  
Skin (Nikkels et al). 1991;13:23-26

#### Leukemia, myeloid

Monitoring DNA Cytometric Parameters During the  
Course of Chronic Myelogenous Leukemia (Kropff et  
al). 1991;13:433-439

#### Leukocytes

Use of Leukocytes Infiltrating Bladder Tumors as an In-  
ternal Reference for Determining the DNA Index by  
Flow Cytometry (Hijazi et al). 1991;13:139-142

#### Lichen planus

DNA-Cytometric Detection of Euploid Polyploidization  
in Oral Lichen Ruber Planus (Biesterfeld et al). 1991;  
13:7-10

#### Lung neoplasms

Expert Systems for Efficient Handling of Medical Infor-  
mation: I. Lung Cancer (Marchevsky). 1991;13:89-92

#### Lymph nodes

Germ Line Configuration of the BCL-2 Major Break-  
point Region in Hyperplastic Lymph Nodes (Lu-  
binski et al). 1991;13:425-428

#### Lymphatic metastasis

A Morphometric Comparison of Subcellular Structures  
Between Primary Breast Tumors and Their Nodal  
Metastases (Cavallari et al). 1991;13:123-131

#### Lymphoma

Cellular Dry Mass During Macrophage Development in  
Malignant Lymphoma (Sokol et al). 1991;13:379-382

Germ Line Configuration of the BCL-2 Major Break-  
point Region in Hyperplastic Lymph Nodes (Lu-  
binski et al). 1991;13:425-428

#### Lymphoma, non-Hodgkin's

Cellular Dry Mass During Macrophage Development in  
Malignant Lymphoma (Sokol et al). 1991;13:379-382

Quantitative Study of KI-67 Antibody Staining in Non-  
Hodgkin's Lymphomas Using Image Analysis (Cau-  
let et al). 1991;13:279-287

### M

#### Macrophages

Cellular Dry Mass During Macrophage Development in  
Malignant Lymphoma (Sokol et al). 1991;13:379-382

Planimetry of Bronchoalveolar Macrophages: Impor-  
tance of Preparation and Staining Techniques (Van  
Meir). 1991;13:261-268

**Malignant lymphoma; see Lymphoma**

**Malignant melanoma; see Melanoma, malignant**

**Medical device safety; see Equipment safety**

#### Melanoma

Cytomorphometry of Uveal Melanoma: Comparison of  
Fine Needle Aspiration Biopsy Samples with Histo-  
logic Sections (Char et al). 1991;13:293-299

#### Melanoma, malignant

Comparison of Nuclear DNA Content in Primary and  
Metastatic Malignant Melanoma (Björnhagen et al).  
1991;13:343

Nuclear DNA Analyses in Archival Material from Pri-  
mary Malignant Melanoma: A Pilot Study (Björn-  
hagen et al). 1991;13:335-342

Nucleolar Organizer Regions in Pigmented Skin Le-  
sions: Value in the Differential Diagnosis of Spitz  
Nevi (González-Cámpora et al). 1991;13:16-22

#### Microcarriers

Assessment of Cell Proliferation on Porous Microcar-  
riers by Means of Image Analysis (Foran et al). 1991;  
13:215-222

#### Microcomputers

A Microcomputer-Based System for Three-Dimensional  
Reconstructions from Tomographic or Histologic Sec-  
tions (Aferzon et al). 1991;13:80-88

**Microdensitometry; see Densitometry**

#### Microscopy, fluorescence

Automated Fluorescence Image Cytometry: DNA

Quantification and Detection of Chlamydial Infections (Lockett et al). 1991;13:27-44

#### **Microscopy, laser, scanning**

High-Resolution Three-Dimensional Images from Confocal Scanning Laser Microscopy: Quantitative Study and Mathematical Correction of the Effects from Bleaching and Fluorescence Attenuation in Depth (Rigaut and Vassy). 1991;13:223-232

#### **Microspectrophotometry**

The Clinical Usefulness of Determining Ploidy Patterns in Human Tumors as Measured by Slide-Based Feulgen Microspectrophotometry (Atkin). 1991;13:75-79

#### **Minimum spanning tree; see Image processing, computer-assisted**

#### **Morphology**

Determination of Nuclear DNA Content and Hormone Receptors in Breast Cancer by the CAS 100 Cell Analysis System as Related to Morphologic Grade and Biochemical Results (Rondez et al). 1991;13:233-245

#### **Morphometry**

Comparative Morphometric Study of Eruptive PUVA-Induced and Chronic Sun-Induced Lentiginosities of the Skin (Nikkels et al). 1991;13:23-26

Fine Needle Aspiration Diagnosis of Hyperplastic and Neoplastic Follicular Nodules of the Thyroid: A Morphometric Study (Crissman et al). 1991;13:321-328

Morphometric Analysis of Borderline Atypia in Prostatic Aspiration Biopsy Specimens (Layfield and Goldstein). 1991;13:288-292

A Morphometric Comparison of Subcellular Structures Between Primary Breast Tumors and Their Nodal Metastases (Cavallari et al). 1991;13:123-131

Morphometry, Densitometry and Pattern Analysis of Plastic-Embedded Histologic Material from Urothelial Cell Carcinoma of the Bladder (van der Poel et al). 1991;13:307-315

Quantitative Histology of the Rat Thyroid: Influence of Histologic Techniques on the Morphometric Data (Delverdier et al). 1991;13:110-114

Reproducibility of Nuclear Morphometric Measurements in Benign Human Epithelial Cells: Stimulation of Variations in Routine Tissue Processing (Ambros). 1991;13:407-410

Some Fundamental Aspects of Morphometry in Clinical Pathology, Demonstrated on a Simple, Multipurpose Analysis System (Oberholzer et al). 1991;13:316-320

#### **Mouth neoplasms**

DNA-Cytometric Detection of Euploid Polyploidization in Oral Lichen Ruber Planus (Biesterfeld et al). 1991;13:7-10

### **N**

**Needle aspiration; see Biopsy, needle**

#### **Neoplasm metastasis**

A Morphometric Comparison of Subcellular Structures

Between Primary Breast Tumors and Their Nodal Metastases (Cavallari et al). 1991;13:123-131

#### **Neoplasm staging**

Flow Cytometric DNA Content in Kaposi's Sarcoma by Histologic Stage: Comparison with Angiosarcoma (Dictor et al). 1991;13:201-208

Histometric Features for the Grading of Prostatic Carcinoma (Bibbo et al). 1991;13:61-68

Morphometry, Densitometry and Pattern Analysis of Plastic-Embedded Histologic Material from Urothelial Cell Carcinoma of the Bladder (van der Poel et al). 1991;13:307-315

Value of the Cribiformity Factor in Grading Prostatic Carcinoma (Minimo et al). 1991;13:411-417

#### **Neoplasms**

Analysis of Soft Tissue Tumors by an Attributed Minimum Spanning Tree (Kayser et al). 1991;13:329-334

The Clinical Usefulness of Determining Ploidy Patterns in Human Tumors as Measured by Slide-Based Feulgen Microspectrophotometry (Atkin). 1991;13:75-79

#### **Nevus, pigmented**

Nucleolar Organizer Regions in Pigmented Skin Lesions: Value in the Differential Diagnosis of Spitz Nevi (González-Cámpora et al). 1991;13:16-22

#### **Nodal metastasis; see Lymphatic metastasis**

#### **Non-Hodgkin's lymphoma; see Lymphoma, non-Hodgkin's**

#### **Nuclear planimetry; see Planimetry**

#### **Nucleolar organizer region**

Nucleolar Organizer Regions in Pigmented Skin Lesions: Value in the Differential Diagnosis of Spitz Nevi (González-Cámpora et al). 1991;13:16-22

#### **Nucleus; see Cell nucleus**

### **O**

#### **Oligodendroglia**

Methodologic Aspects of Nuclear DNA Assessment of Gliomas with Astrocytic and/or Oligodendrocytic Differentiation: Correlation of Image and Flow Cytometric Studies on Paraffin-Embedded Specimens (Ullén et al). 1991;13:168-176

#### **Oncogene products**

Correlation of DNA Ploidy with c-erbB-2 Expression in Preinvasive and Invasive Breast Tumors (Visscher et al). 1991;13:418-424

#### **Oral smear; see Smears**

#### **Ovarian neoplasms**

Dual-Parameter Flow Cytometric Analysis Coupling the Measurements of Forward-Angle Light Scatter and DNA Content of Archival Ovarian Carcinomas of Low Malignant Potential (Eriksen et al). 1991;13:45-53

### **P**

**Papillary carcinoma; see Carcinoma, papillary**

### **Papillomaviruses**

Presence of Human Papillomavirus Genome in Human Tumor Cell Lines and Cultured Cells (Ishiwata et al). 1991;13:363-370

### **PAPNET™ Cytological Screening System**

Data on Automated Cytology Systems as Submitted by Their Developers. 1991;13:300-306

### **Paraffin**

Methodologic Aspects of Nuclear DNA Assessment of Gliomas with Astrocytic and/or Oligodendrocytic Differentiation: Correlation of Image and Flow Cytometric Studies on Paraffin-Embedded Specimens (Ullén et al). 1991;13:168-176

Semiautomation of Preparation of Fixed Paraffin-Embedded Tissue for DNA Analysis (Cohen et al). 1991;13:177-181

### **Pattern analysis**

Morphometry, Densitometry and Pattern Analysis of Plastic-Embedded Histologic Material from Urothelial Cell Carcinoma of the Bladder (van der Poel et al). 1991;13:307-315

### **Peritoneal fluid; see Ascitic fluid**

### **Peritoneal lavage**

Qualitative and Quantitative Analysis of Peritoneal Fluids from Women with Gynecologic Diseases: Comparison of Cytology and Flow Cytometry for the Detection of Malignancy in Lavage and Ascitic Fluids (Finn et al). 1991;13:182-186

### **Phagocytes**

Cellular Dry Mass During Macrophage Development in Malignant Lymphoma (Sokol et al). 1991;13:379-382

### **Planimetry**

Nuclear Planimetry in Renal-Cell Tumors (González-Cámpora et al). 1991;13:54-60

Planimetry of Bronchoalveolar Macrophages: Importance of Preparation and Staining Techniques (Van Meir). 1991;13:261-268

Quantitative Cytology of Oral Smears: A Comparison of Two Methods of Measurement (Cowpe et al). 1991;13:11-15

### **Plastics**

Morphometry, Densitometry and Pattern Analysis of Plastic-Embedded Histologic Material from Urothelial Cell Carcinoma of the Bladder (van der Poel et al). 1991;13:307-315

### **Ploidy**

The Clinical Usefulness of Determining Ploidy Patterns in Human Tumors as Measured by Slide-Based Feulgen Microspectrophotometry (Atkin). 1991;13:75-79  
Correlation of DNA Ploidy with c-erbB-2 Expression in Preinvasive and Invasive Breast Tumors (Visscher et al). 1991;13:418-424

### **Polyploidy**

DNA-Cytometric Detection of Euploid Polyploidization in Oral Lichen Ruber Planus (Biesterfeld et al). 1991;13:7-10

### **Polyps**

Flow Cytometric Analysis of DNA Content in Colorectal Polyps Resected at Endoscopy (Perrin-Cottier et al). 1991;13:132-138

A Method to Quantitate the Relative Nuclear Area of Colorectal Polyps by Image Analysis (Rubio and Porwit-McDonald). 1991;13:155-158

### **Preparation of specimen; see Specimen handling**

### **Probability theory**

Reasoning in Uncertainties: An Analysis of Five Strategies and Their Suitability in Pathology (van Ginneken and Smeulders). 1991;13:93-109

### **Proceedings**

Proceedings of the International Conference on the Computerized Cytology and Histopathology Laboratory. 1991;13:75-92

### **Prognosis**

Coefficient of Variation of Nuclear Diameters as a Prognostic Factor in Papillary Thyroid Carcinoma (Chang et al). 1991;13:403-406

### **Programming languages**

Ada Software for Cytometry (Leif et al). 1991;13:440-450

### **Prostatic neoplasms**

Histometric Features for the Grading of Prostatic Carcinoma (Bibbo et al). 1991;13:61-68

Morphometric Analysis of Borderline Atypia in Prostatic Aspiration Biopsy Specimens (Layfield and Goldstein). 1991;13:288-292

Value of the Cribriformity Factor in Grading Prostatic Carcinoma (Minimo et al). 1991;13:411-417

### **Punch biopsy; see Biopsy**

### **PUVA therapy**

Comparative Morphometric Study of Eruptive PUVA-Induced and Chronic Sun-Induced Lentiginosities of the Skin (Nikkels et al). 1991;13:23-26

## **Q**

### **Quality control**

Cytomorphometry as Quality Control for Fine Needle Aspiration: A Study in 321 Breast Lesions (Beerman et al). 1991;13:143-148

## **R**

### **Reasoning systems**

Reasoning in Uncertainties: An Analysis of Five Strategies and Their Suitability in Pathology (van Ginneken and Smeulders). 1991;13:93-109

### **Receptors, endogenous substances**

Determination of Nuclear DNA Content and Hormone Receptors in Breast Cancer by the CAS 100 Cell Analysis System as Related to Morphologic Grade and Biochemical Results (Rondez et al). 1991;13:233-245

### **Renal cell tumor; see Carcinoma, renal cell**

**Reproducibility of results**

Reproducibility of Nuclear Morphometric Measurements in Benign Human Epithelial Cells: Stimulation of Variations in Routine Tissue Processing (Ambros). 1991;13:407-410

**Roche Autocyte™**

Data on Automated Cytology Systems as Submitted by Their Developers. 1991;13:300-306

**S****Sarcoma, Ewing's**

Digital Cell Image Analysis of Ewing's Sarcoma (Kiss et al). 1991;13:356-362

**Sarcoma, Kaposi's**

Flow Cytometric DNA Content in Kaposi's Sarcoma by Histologic Stage: Comparison with Angiosarcoma (Dictor et al). 1991;13:201-208

**Scanning laser microscopy; see Microscopy, laser, scanning****Scanning microdensitometry; see Densitometry****Semiautomation; see Automation****Single-gland analysis**

Automated Analysis of Rat Breast Tumors: Comparison of Four Methods (Wachtel et al). 1991;13:69-73

**Skin neoplasms**

Nucleolar Organizer Regions in Pigmented Skin Lesions: Value in the Differential Diagnosis of Spitz Nevus (González-Cámpora et al). 1991;13:16-22

**Skin pigmentation**

Comparative Morphometric Study of Eruptive PUVA-Induced and Chronic Sun-Induced Lentiginosities of the Skin (Nikkels et al). 1991;13:23-26

**Slide-based Feulgen microspectrophotometry; see Microspectrophotometry****Smears**

Comparison of Fine Needle Aspirates of Breast Cancers to Imprint Smears by Means of Digital Cell Image Analysis (Salmon et al). 1991;13:193-200

Quantitative Cytology of Oral Smears: A Comparison of Two Methods of Measurement (Cowpe et al). 1991;13:11-15

**Soft tissue tumors; see Neoplasms****Software**

Ada Software for Cytometry (Leif et al). 1991;13:440-450

**Specimen handling**

Planimetry of Bronchoalveolar Macrophages: Importance of Preparation and Staining Techniques (Van Meir). 1991;13:261-268

Three-Dimensional Reconstruction from Serial Sections: V. Calibration of Dimensional Changes Incurred During Tissue Preparation and Data Processing (McLean and Prothero). 1991;13:269-278

**Spermatozoa**

Quantitative Assessment of Chromatin Stability Alteration in Human Spermatozoa Induced by Freezing

and Thawing: A Flow Cytometric Study (Pasteur et al). 1991;13:383-390

**Spitz nevi; see Nevus, pigmented****Stains and staining**

A Comparative Study of Quantitative Stains for DNA in Image Cytometry (Mikel and Becker). 1991;13:253-260

Planimetry of Bronchoalveolar Macrophages: Importance of Preparation and Staining Techniques (Van Meir). 1991;13:261-268

Quantitative Study of KI-67 Antibody Staining in Non-Hodgkin's Lymphomas Using Image Analysis (Caulet et al). 1991;13:279-287

**Subcellular structures**

A Morphometric Comparison of Subcellular Structures Between Primary Breast Tumors and Their Nodal Metastases (Cavallari et al). 1991;13:123-131

**Sunlight**

Comparative Morphometric Study of Eruptive PUVA-Induced and Chronic Sun-Induced Lentiginosities of the Skin (Nikkels et al). 1991;13:23-26

**Synthesis phase fraction; see Cell fractionation****T****Thawing; see Freezing****Three-dimensional reconstruction; see Image processing, computer-assisted****Thymidine**

Determination of the Rate of DNA Synthesis of Human Tumor Cells Obtained by Fine Needle Aspiration: Comparison of Flow Cytometry and an Immunoperoxidase Method for the Detection of Thymidine Analogue Incorporation (Heimann et al). 1991;13:371-378

**Thyroid neoplasms**

Coefficient of Variation of Nuclear Diameters as a Prognostic Factor in Papillary Thyroid Carcinoma (Chang et al). 1991;13:403-406

Fine Needle Aspiration Diagnosis of Hyperplastic and Neoplastic Follicular Nodules of the Thyroid: A Morphometric Study (Crissman et al). 1991;13:321-328

Quantitative Histology of the Rat Thyroid: Influence of Histologic Techniques on the Morphometric Data (Delverdier et al). 1991;13:110-114

**Tomography, x-ray computed**

A Microcomputer-Based System for Three-Dimensional Reconstructions from Tomographic or Histologic Sections (Aferzon et al). 1991;13:80-88

**Translocation**

Germ Line Configuration of the BCL-2 Major Breakpoint Region in Hyperplastic Lymph Nodes (Lubinski et al). 1991;13:425-428

**Tumor cells, cultured**

Determination of the Rate of DNA Synthesis of Human Tumor Cells Obtained by Fine Needle Aspiration: Comparison of Flow Cytometry and an Immuno-



peroxidase Method for the Detection of Thymidine Analogue Incorporation (Heimann et al). 1991;13:371-378

Presence of Human Papillomavirus Genome in Human Tumor Cell Lines and Cultured Cells (Ishiwata et al). 1991;13:363-370

**Tumors; see Neoplasms; specific neoplasms**

## U

### Ultraviolet rays

Comparative Morphometric Study of Eruptive PUVA-Induced and Chronic Sun-Induced Lentigines of the Skin (Nikkels et al). 1991;13:23-26

### Uncertainties

Reasoning in Uncertainties: An Analysis of Five Strate-

gies and Their suitability in Pathology (van Ginneken and Smeulders). 1991;13:93-109

### United States Food and Drug Administration

FDA Regulation of Computerized Cytology Devices (Brindza). 1991;13:3-6

**Urothelial cell carcinoma; see Bladder neoplasms**

### Uveal neoplasms

Cytomorphometry of Uveal Melanoma: Comparison of Fine Needle Aspiration Biopsy Samples with Histologic Sections (Char et al). 1991;13:293-299

## W

### Wied, George L.

George L. Wied—Seventy Years Young (Koss et al). 1991;13:1-2 (Editorial)